

# PIETRO BOLCATO

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## PROFESSIONAL EXPERIENCES

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### KITTL

Principal AI Engineer (Lead) | Generative AI Team

Berlin, Germany  
07/2023 - Present

- Generative AI lead for:
  - Image generation, style transfer, upscaling, and background removal using Diffusion Models
  - Multimodal search, text generation, and translation using LLMs, Multi-Modal Embeddings, and Vector DBs
  - Editable design generation, with a custom Transformer model trained on internal data
  - Resulted in: +207% monthly user activation, +68% monthly user retention
- Created infrastructure for optimized training and inference of AI models on AWS, resulting in 77% cost reduction
- Optimized Diffusion Models in production, leading to an +83% inference speed increase
- Hired and lead a 9 person cross-functional team, including PM, UX designer, developers, and AI researchers

### KLING KLANG KLONG

Senior AI Engineer (Lead) | AI Team

Berlin, Germany  
10/2020 - 07/2023

- Developed a state of the art text-to-song pipeline for real time generation of melodies, lyrics, and vocals using Diffusion Models and LLMs
- Used in "Chasing Waterfalls", the world's first AI Lyric Opera with unique singing voice generated live for each show
- Lead to 136% yearly revenue growth as result of the opera's worldwide tour

### DoREMIR

AI Research Scientist

Stockholm, Sweden  
12/2019 - 06/2020

- Developed a novel neural network architecture using RNNs for concurrent melody and lyrics generation, showcased at the first AI song contest broadcasted on EU television

## EDUCATION

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### DOUBLE MASTER DEGREE IN ARTIFICIAL INTELLIGENCE,

Royal Institute Of Technology (Sweden), Technical University of Berlin (Germany)

2018 - 2020

- European Double Degree Excellence Program: [EIT Digital](#)
- Specialization in Deep Learning and Neural Networks
- GPA: 9.8 / 10

### BACHELOR DEGREE IN COMPUTER SCIENCE,

University of Trento (Italy), Polytechnic University of Bucharest (Romania)

2015 - 2018

- Part of special thesis research project with the Polytechnic University of Bucharest, improving state-of-the-art facial emotion recognition in the wild using deep learning (CNNs)
- GPA: 9.5 / 10

## SKILLS

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- **Technologies:** AWS, Azure, HuggingFace, PyTorch, Pytest, Unittest, Github Actions, Weights & Biases, Docker, Terraform
- **Certifications:** [Azure Data Scientist](#), [Azure AI](#)